OBJAN 91

TUESDAY 18 JULY

PULMONARY TOXICOLOGY (cont)

Abstract

286 (P169) **Morphological changes of human lung parenchyma in relation to cytostatic therapy**
K Kayser, H J Gabius, S Carl, F Enchev & S Bach (Heidelberg & Göttingen, FRG)

287 (P170) **Effect of flax dust extract on perfused isolated lung of the guinea pig**
P J Bates & P J Nicholls (Cardiff, UK)

288 (P171) **Refractory ceramic fibers (RCF): experimental design and interim results from inhalation oncogenicity studies in rats comparing 4 RCFs with chrysotile asbestos**
D M Bernstein, H Fleischer, C Bolsser, O Vogel, J Chevalier, R Mast & R Anderson (Carouge-Geneva, Switzerland; Cleveland & Denver, USA)

289 (P172) **Inhalation toxicity of pyrolysis products of polymeric materials in rats**
R Raje & L Greenberg (Brooklyn, USA)

2000 **WORKSHOPS Brighton Metropole Hotel**

There are a limited number of places at each Workshop and admission is by pre-booked ticket.

W4 **THE RELEVANCE OF DRUG METABOLISM POLYMORPHISMS IN TOXICITY AND CARCINOGENICITY**
Balmoral Room
Organiser: A R Boobis (London, UK)

W5 **OVER-EVALUATION AND OVER-INTERPRETATION OF THE RESULTS OF TOXICITY STUDIES: THE IMPACT ON DEVELOPMENT OF NEW CHEMICALS AND PHARMACEUTICALS**
Buckingham Room
Organiser: J B Hook (Philadelphia, USA)

W6 **MOLECULAR BIOLOGY OF CHEMICAL CARCINOGENESIS**
Edinburgh Room
Organiser: K T Atherton (Macclesfield, UK)

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WEDNESDAY 19 JULY

0845-1145 **SYMPOSIUM 6 Brighton Centre**

Immunotoxicology

Chairmen: J M Dewdney (Epsom, UK) and I Kimber (Macclesfield, UK)

	Abstract	
0845-0915	290	**The immune system as a site for toxic damage** **J M Dewdney** (Epsom, UK)
0915-0945	291	**Clinical consequences of congenital and acquired immune deficiency in man** **M R Haeney** (Salford, UK)
0945-1015	292	**The immunological and clinical effects of cyclosporin A in man** **B Ryffel, B M J Foxwell, J F Borel & M J Mihatsch** (Basle, Switzerland)
1015-1045	293	**The relationship between clinical immunology and classical experimental immunotoxicology** **G Zbinden** (Zurich, Switzerland)
1045-1115	294	**Experimental studies: immunotoxicity and altered host resistance in rodents** **J G Vos, E I Krajnc & H Van Loveren** (Bilthoven, The Netherlands)
1115-1145	295	**Mechanisms of immunotoxicity** **W F Greenlee** (Research Triangle Park, USA)

WEDNESDAY

0845-1145 **SYMPOSIUM 7 Brighton Metropole Hotel**

Susceptibility of different age groups to toxic damage

Joint Symposium with International Life Sciences Institute (ILSI)

Chairmen: R Kroes (Bilthoven, The Netherlands) and E A Lock (Macclesfield, UK)

0845-0920	296	**The effect of physiological competence on toxicity: the response of neonates** **J L Blumer** (Cleveland, USA)

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WEDNESDAY 19 JULY

Susceptibility of different age groups to toxic damage (cont)

	Abstract	
0920-0955	297	Changes in DNA repair with ageing and its influence on genotoxicity **J Vijg** (Rijswijk, The Netherlands).
0955-1030	298	Susceptibility of different age groups to toxic damage **I H Stevenson** (Dundee, UK)
1030-1105	299	Age-related changes in renal function and their effect on toxic response **R S Goldstein** (King of Prussia, USA)
1105-1140	300	Evaluation of rodent models for the study of age-related modification in toxic response **K Kitani** (Tokyo, Japan)

1200-1300 PLENARY LECTURE Brighton Centre

Chairman: D S Davies (London, UK)

Signal transduction in cells as a target for toxic compounds

R H Michell (Birmingham, UK)

1300-1430 LUNCH Brighton Centre

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WEDNESDAY 19 JULY [redacted]

1430-1600 **POSTER PRESENTATIONS Brighton Centre**
Numbers in parentheses indicate poster boards

1600-1730 **POSTER DISCUSSION GROUPS**
Brighton Metropole and Grand Hotels

NEUROTOXICOLOGY I (Abstracts 301-320)

Chairmen: M Lotti (Padova, Italy) and K M Savolainen (Kuopio, Finland)

Posters will be displayed in the Main Foyer. The Discussion Group will be held in the Edinburgh Room, Metropole Hotel

Abstract

301 (P1) Changes in acetylcholinesterase activity in rat brain after foot-shock stress in an animal model of depression are reversed after administration of imipramine and lithium
K Ivede, M Geoffroy, A V Christensen & J S Schou (Copenhagen & Roskilde, Denmark)

302 (P2) Carbaryl induced inhibition of plasma, erythrocyte and brain cholinesterase in singly and gang housed CD rats
O P Green, S E Burton, D Crook, K Brodie & R W James (Huntingdon, UK)

303 (P3) Time course of ChE activity, lactate, pyruvate and Hb after physostigmine administration in trained rats
S R Babu, S N Dube & S M Somani (Springfield, USA)

304 (P4) Effects of acute exercise after physostigmine administration on ChE activity, lactate, pyruvate and Hb in rats
S M Somani & S N Dube (Springfield, USA)

305 (P5) Delayed neurotoxicity of triphenyl phosphite in hens
N Konno, K Katoh, T Yamauchi & M Fukushima (Fukushima, Japan)

306 (P6) Effects of age on delayed neurotoxicity of triphenyl phosphite in chickens
K Katoh, N Konno, T Yamauchi & M Fukushima (Fukushima, Japan)

307 (P7) 200 Fold purification of neuropathy target esterase (NTE)
M E Rueffer-Turner, D J Read & M K Johnson (Carshalton, UK)

308 (P8) A model of peripheral organophosphorus induced delayed neuropathy after surgery and local *in vivo* dosing
V Carrera, E Vilanova, M C Mauricio & J Barril (Alicante, Spain)

309 (P9) Soluble and particulate forms of the organophosphorus neuropathy target esterase (NTE) activity in hen sciatic nerve and brain
J Barril, E Vilanova, V Carrera & M C Pellin (Alicante, Spain)

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WEDNESDAY 19 JULY [redacted]

NEUROTOXICOLOGY I (cont)

Abstract

310 (P10) **Organophosphorus hydrolase activity (A-esterase) in several rat and hen tissues using *O*-hexyl, *O*-dichlorophenyl phosphoramidate (hexyl-DCP) as substrate**
N Diaz-Alejo, J L Vicedo, M C Pellin & E Vilanova (Alicante, Spain)

311 (P11) Lithium amplification of cerebral inositol-1-phosphate concentrations: different effects in different rat strains
K M Savolainen, M-R Hirvonen, S R Nelson, F E Samson & T L Pazdernik (Kuopio, Finland & Kansas City, USA)

312 (P12) Changes in cerebral inositol-1-phosphate concentrations in *LiCl*-treated rats: regional and strain effects
K M Savolainen, M-R Hirvonen, S R Nelson, F E Samson & T L Pazdernik (Kuopio, Finland & Kansas City, USA)

313 (P13) The effect of malaoxon on cerebral inositol-1-phosphate and calcium levels in aged rats
M-R Hirvonen, K M Savolainen (Kuopio, Finland)

314 (P14) Determination of neuronal inositol phosphates *in vivo* and *in vitro* in the presence and absence of lithium
P Korjus, M R Hirvonen, J Tähtinen & K M Savolainen (Kuopio, Finland)

315 (P15) Insights into DMSO effects on transmembrane signalling in *S. cerevisiae* as a eukaryotic model
A C Pauck, S Poppe, L Van Halsema & V B C Junqueira (São Paulo, Brazil)

316 (P16) Aldehyde dehydrogenase inhibitors enhance neurotoxic effect of ethanol
S M Zamatkin (Grodno, USSR)

317 (P17) Effects of bicuculline on γ-aminobutyric acid binding sites in rat brain
T K Hu, Y Ito & D K Lim (Jackson, USA)

318 (P18) Dopamine receptors and a jumping behaviour induced by harmine and apomorphine in rats
K Maroli & T Koga (Chiba, Japan)

319 (P19) Effect of various chemicals on nerve tissue cell differentiation *in vitro*
A Brummk, P Reiser & G Zbinden (Zurich, Switzerland)

320 (P20) The effects of poly-L-amino acids on gentamicin-induced neurotoxic changes in the isolated nerve cord of the cockroach
P L Chambers & L P Callaghan (Dublin, Ireland)

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WEDNESDAY 19 JULY [redacted]

NON-GENOTOXIC CARCINOGENESIS (Abstracts 321-330)

Chairmen: C R Elcombe (Macclesfield, UK) and L Wärngård (Stockholm, Sweden)

Posters will be displayed in the Main Foyer. The Discussion Group will be held in the Gloucester Room, Metropole Hotel

Abstract

321 (P27) Phenoxyisobutyrate-induced hypergastrinaemia and neuroendocrine cell hyperplasia in the rat
F W Bohner, C T Eason & A J Spencer (Alnwick, UK)

322 (P28) Induction of ornithine decarboxylase activity in primary cultures of adult rat hepatocytes
M Warholm (Solna, Sweden)

323 (P29) Protection of GGT-positive rat hepatocytes against GSH-depletion, oxidative stress and reversible alterations of cell surface receptors for adhesion to extracellular matrix
U Stenius & J Högberg (Solna, Sweden)

324 (P30) Investigation of the mechanism of non-genotoxic epithelial carcinogenesis
S M Hewitt, P A Duffy, R C Garner & I C Ottin (York & Macclesfield, UK)

325 (P31) Factors in dichloroacetate- and trichloroacetate-induced hepatocarcinogenesis
R Bull, M Nelson & F Sanchez (Pullman, USA)

326 (P32) Role of urinary sodium and potassium concentration and pH in urinary bladder carcinogenesis in rats
B A R Lina & R A Woutersen (Zeist, The Netherlands)

327 (P33) Hepatic effects of chlorinated paraffins
C R Elcombe, S C Watson, A R Soames & J R Foster (Macclesfield, UK)

328 (P34) Role of oxygen tension and hepatotoxicity in mechanism of action of peroxisomal proliferating agents
R G Thurman & B J Keller (Chapel Hill, USA)

329 (P35) Comparative studies of DDT and structurally related pesticides on tumour promotion-related effects
S Fredriksson, H Hemming, L Warngard & U G Ahlborg (Stockholm, Sweden)

330 (P36) Increased labelling indices in rat gastro-intestinal tract tissues following 14 days of oral butylated hydroxyanisole administration
H Verhagen, C Fonnee, B Schutte & J C S Kleinjans (Maastricht, The Netherlands)

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WEDNESDAY 19 JULY

RISK ASSESSMENT (Abstracts 331-341)

Chairmen B A Brown (Washington, USA) and K N Woodward (London, UK)

Posters will be displayed in the Main Foyer. The Discussion Group will be held in the Albert Room, Grand Hotel.

Abstract

331 (P37) **Hazard and risk assessment and management in USDA**
B A Brown, A Post, M Norcross, M Cordle & Z Hornikova (Washington, USA)

332 (P38) **Computer assisted methods for assembling, analysing and interpreting toxicological data**
D Brusick & R Cox (Vienna, USA)

333 (P39) Occupational exposure to [illegible] and clothing industry
P Faustig, R Schonberg & P [illegible] (Helsinki & Tampere, Finland)

334 (P40) Alteration of [illegible] production **in rats as a result of** cerebral acetylcholinesterase inhibition by compounds such as soman **and parathion**
R P Maickel, D E Ryker & M G [illegible] (West Lafayette, USA)

335 (P41) [illegible] **long term and reproductive** [illegible]
F K Johannsen (St Louis, USA)

336 (P42) Different approaches to risk assessment
F C Lu (Miami, USA)

337 (P43) Adverse reaction reporting for veterinary **drugs**
A K Gray & K N Woodward (Weybridge & London, UK)

338 (P44) Adverse reactions in humans arising from the use of **veterinary drugs**
K N Woodward & A K Gray (London & Weybridge, UK)

339 (P45) Assessment of the safety of diquat in controlling **aquatic vegetation in reservoirs**
P F Berteau & A M Lan (Berkeley, USA)

340 (P46) Carcinogenic potencies in man versus animal models
A Gregory & J Contz (Alexandria, USA)

341 (P47) **Species differences in the metabolism of alachlor - implications for human risk assessment**
A G E Wilson, R C Dirks & J M Mahk (St Louis, USA)

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WEDNESDAY 19 JULY [redacted]

CUTANEOUS TOXICOLOGY (Abstracts 342-348)

Chairmen: D H Pullinger (Eye, UK) and S A Hotchkiss (London, UK)

Posters will be diplayed in the Main Foyer. The Discussion Group will be held in the Regent Room, Grand Hotel

Abstract

342 (P48) **An assessment of the toxicity of pentadecanoic acid monoglyceride**
D H Pullinger, M Masuda, K Oba, Y Takagi, J Boolman, A Broadmeadow, P M Brown, H A Cummins, F W Ross, P A McAnulty, S T Rhenius, C N Roberts & J M Tesh (Odawara-shi, Japan & Eye, UK)

343 (P49) Evidence for the existence of a cutaneous reservoir for benzyl acetate
S A Hotchkiss, S Fraser & J Caldwell (London, UK)

344 (P50) *In vitro* dermal absorption and metabolism of benzyl acetate
A Garnett, S A Hotchkiss, S Fraser & J Caldwell (London, UK)

345 (P51) Pathology and immunohistochemistry of sulphur mustard skin injury
P Guittin (Vert le Petit, France)

346 (P52) Percutaneous metabolism and absorption of pesticides
S E Macpherson, F M Williams, R C Scott & M D Rawlins (Newcastle upon Tyne & Macclesfield, UK)

347 (P53) Phototoxic studies of quinolone antibacterial agents in Balb/c strain mice
K Tawara, N Wagai, F Yamaguchi, M Sekiguchi & T Onodera (Tokyo, Japan)

348 (P54) Establishment of experimental conditions for detecting phototoxic potentials of drugs in Balb/c strain mice
N Wagai, F Yamaguchi, K Tawara & T Onodera (Tokyo, Japan)

WEDNESDAY

IN VITRO TOXICOLOGY II (Abstracts 349-369)

Chairmen: M P Ryan (Dublin, Ireland) and Y H M Van Erp (Hertogenbosch, The Netherlands)

Posters will be displayed in the Hewison Hall. The Discussion Group will be held in the Buckingham Room, Metropole Hotel

349 (P69) The study on *in vitro* toxicity of TNT to human erythrocytes and its mechanism
Z X Zhuang, S J Liu & Q G Jiang (Beijing, China)

350 (P70) Acrolein-induced injury to vascular endothelial cells
J M Patel & E R Block (Gainesville, USA)

351 (P71) The correlation between drugs' LC50 in brine shrimp, their oral ED50 in rats, and their lethal concentration in man
M Mahmoudian, P Nouhnejad & S Amini (Tehran, Iran)

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IN VITRO TOXICOLOGY II (cont)

Abstract

352 (P72) **Pretreatment with buthionine sulphoximine and diethyl maleate alters spermine toxicity in BHK-21/C13 cells**
V G Brunton, M H Grant & H M Wallace (Aberdeen, UK)

353 (P73) **Prevention by glutathione monoethyl ester of microtubule disassembly induced by** 1-chloro-2,4-dinitrobenzene
M-F Leung & I N Chou (Boston, USA)

354 (P74) **The effects of prostaglandin E_2 on cultured rat embryos**
A Yukoyama & K Ito (Tokyo, Japan)

355 (P75) *In vitro* study to clarify the nephrotoxicity mechanism of aminoglycoside and cephalosporin antibiotics with renal epithelial cells
M Kurebe, H Kawazoe, K Kiyomiya & N Matsushita (Yokohama, Japan)

356 (P76) Relationship between *in vitro* and *in vivo* toxic effects of antitumour agents
M Kurebe, K Kawamura, M Seki, K Kiyomiya & N Sugiyama (Yokohama, Japan)

357 (P77) *In vitro* evaluation of teratogenicity of chemicals using the postimplantation embryo culture system
M H Savary, V Gamblin, J F le Bigot & R Glomot (Evreux, France)

358 (P78) Cisplatin transport in LLC-PK$_1$ and MDCK renal cell lines grown on microporous membranes
B Casey, I Pratt & M P Ryan (Dublin, Ireland)

359 (P79) Effect of cisplatin on isolated rat kidney proximal tubular fragments: an *in vitro* model for nephrotoxicity studies
S McGuinness, I Pratt & M P Ryan (Dublin, Ireland)

360 (P80) Development of a primary rat renal proximal cell culture model for nephrotoxicity studies
T Barrow, I Pratt & M P Ryan (Dublin, Ireland)

361 (P81) Cations and the activity of soluble protein kinase C
H Katsuyama, Y Inoue, K Satoh & K Sumino (Kobe, Japan)

362 (P82) Mitochondrial DNA as a model for *in vitro* toxicology studies
G Singh (Hamilton, Canada)

363 (P83) Study of chronic toxicity of pyrazinamide in four established cell lines (FAO, Hep G2, L929, Vero)
P Rat, X Rimet, J M Warnet, J R Claude & M Adolphe (Paris, France)

364 (P84) Evaluation of cytotoxicity of chemicals using plastic multiwell plates
L Sheng-Qing (Harbin, China)

365 (P85) Eye irritancy screening for classification of chemicals
V H M Van Erp (Hertogenbosch, The Netherlands)

366 (P86) A QSAR approach in toxicity testing by the chick embryo method
G L Biagi, M C Guerra & A M Barbaro (Bologna, Italy)

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